



Rolling Wave #4 and IBR/EAC Kickoff

1 October 1998

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| Task | October | November | December | January |
|--|---------------------------|--------------------|-------------------|---------|
| IPT Kick Off Meetings | 9/30 △ 10/7 V | | | |
| SPO Training | ★ 10/8 | | | |
| IMS CCB'd and EAC Assumptions Reviewed | ★ 10/15 | | | |
| CAMs Prepare RW#4 & EAC Documentation | △ 10/5 — 10/5 to 10/30 | ▽ 10/30 | | |
| IPT Roll-up to 4th Level (Ground to STS Level 5) | 11/2 △ ▽ 11/4 | | | |
| Prelim Prog Office App'l at 3rd Level | 11/4 △ ▽ 11/10 | | | |
| IPT STS Sessions * | | 11/10 △ — 11/25 | | |
| STS AI Closure & EAC Agreements Reached | | 11/30 △ — 12/11 | | |
| Program Manager to Approve IPT EAC's | | | △ 12/7 ▽ 12/18 | |
| Incorporate RW#4 and EAC into PMB | | | △ 12/7 — 1/15 | |
| IBR Outbrief | | | | ★ 1/27 |

* IPTs to schedule STS dates



Scope and Schedule



Scope

- **SBIRS High EMD CLIN 0004 and CLIN 0010 including:**
 - D6c
 - G4/G5 impact to G1-G3
 - IMCSB contract change
 - TT&C contract change

Schedule

- **All of the above changes to be CCB approved into the IMS NLT 10/15**



Ground Rules and Instructions - 1 of 3



- **Detail planning required through FY99 or logical milestone completion**
- **EAC's to be updated for all cost accounts**
 - Time phased through contract completion by quarter or month
 - Must indicate that all IMS tasks are covered
 - Data to be rolled up to the 4th* level of the WBS
 - » HOSV, SEIT, Program Office to use common spreadsheet
 - » Ground Segment to use performance system data
- **IPTs must adhere to their fiscal funding targets**
 - Targets have been updated and provided separately
- **EAC assumptions must be documented and reviewed by Program Manager by 10/15**
 - Assumptions and EAC must be consistent with updated risk mitigation plans presented by SEIT on 10/2

* Ground Segment data at the 5th level of the WBS



Ground Rules and Instructions - 2 of 3



- **Shoulder-to-Shoulder (STS) data required for each 4th* Level WBS as follows:**
 - Top level description (WBS Dictionary)
 - Top level schedule
 - Time phased planning covering all IMS tasks
 - Split between in-house, subcontract and material dollars
 - Explanation of why EAC is the same, better, or worse than history (CPI vs TCPI)
 - Description of key risks and how they are covered in EAC
 - Documented justification (basis-of-estimate) if one or more of the following criteria are met:
 - » Cumulative CPI < 0.98 or > 1.02 and effort is > 5% complete
 - » VAC • 2%
 - » EAC > \$10M

Note: 1) NRE must be distinguished from recurring effort
2) Pertinent cost account performance must not be masked

* Ground Segment to STS the 5th level of the WBS



Ground Rules and Instructions - 3 of 3



- **IPTs to schedule STS sessions with SPO, DCMC and Aerospace counterparts**
 - IBR Team Membership matrix attached
- **STS agreements and sign off at 4th* level of the WBS for all EAC's**
- **Program Manager approval required**
 - IPTs to summarize data at each 3rd level WBS
 - Impact to Funding Scorecard must be analyzed and approved
 - Program Manager maintains the right to challenge any EAC



IBR Team Membership - 1 of 5



| WBS | Description | IPT Lead | CAM | CAM Phone # | SPO Counterpart |
|-------------|---|---------------|----------------|----------------|---------------------|
| 0000 | SBIRS High Component | Tony Tuffo | | (408) 742-3732 | Col. Gomez |
| 1XXX | High Orbit Space Vehicle | Bob Baker | | (408) 742-0802 | Lt. Col. Rosensteel |
| 11XX | Integr,Assy,Test & Check (IAT&C) | Dave Parsons | | (408) 743-7072 | Capt. Toso |
| 1110 | HOSV Management & Bus Ops | | John Finneran | (408) 743-0098 | Capt. Toso |
| 1120 | HOSV Specialty Engineering | | Jon Burgess | (408) 756-4678 | Capt. Toso |
| 1130 | Design Integration | | Bruce Steakley | (408) 743-0151 | Capt. Toso |
| 1140 | Assembly & Test | | Alan Brown | (408) 742-2757 | Capt. Toso |
| 1150 | Payload Subcontract Management | | Bruce Steakley | (408) 743-0151 | Maj. McMurry |
| 12XX | GEO Payload | Sabby Sabnis | | (626) 812-2110 | Maj. McMurry |
| 1210 | Payload IAT&C | | Terry O'Brien | (626) 812-2129 | Maj. McMurry |
| 1220 | Optical Telescope | | Phil Simpson | (626) 812-1166 | Lt. Hunt |
| 1230 | Pointing & Control | | Mike Roller | (408) 742-4576 | Capt. Hughes |
| 1240 | Focal Plane Assembly | | Rick Ross | (410) 765-3126 | Lt. Hunt |
| 1250 | Thermal Control Subsystem | | Dave Wilson | (626) 812-1728 | Lt. Hunt |
| 1260 | Signal Processing Assembly | | Mark Loring | (626) 812-8248 | Capt. Hughes |
| 1270 | Power & Signal Distribution System | | John Voboril | (626) 812-1716 | Capt. Hughes |
| 13XX | GEO Spacecraft | Paul McDonald | | (408) 756-2738 | Capt. Cruciani |
| 1310 | Spacecraft Bus Ops | | John Finneran | (408) 743-0098 | Capt. Cruciani |
| 1320 | Structures & Mechanisms | | Bob Gardner | (408) 743-2184 | Capt. Cruciani |
| 1330 | Thermal Control | | Jeff Fetherolf | (408) 743-7090 | Capt. Cruciani |
| 1340 | Electrical Power | | Ray Murdock | (408) 743-7227 | Capt. Cruciani |
| 1350 | Guidance, Navigation & Control | | Steve Wolff | (408) 756-0994 | Capt. Cruciani |
| 1360 | Flight Software | | Rod Gibb | (408) 756-1292 | Capt. Cruciani |
| 1370 | Command & Data Handling | | Lou Deaton | (408) 742-8236 | Capt. Cruciani |
| 1380 | Communications Products | | Taffy Curtin | (215) 497-4161 | Capt. Cruciani |
| 1390 | Propulsion | | Gary Stevenson | (408) 743-7133 | Capt. Cruciani |



IBR Team Membership - 2 of 5



| WBS | Description | IPT Lead | CAM | CAM Phone # | SPO Counterpart |
|------|------------------------------------|--------------|---------------|----------------|-----------------|
| 14XX | HEO Payload | Sabby Sabnis | | (626) 812-2110 | Maj. McMurry |
| 1410 | Payload IAT&C | | Terry O'Brien | (626) 812-2129 | Maj. McMurry |
| 1420 | Optical Telescope | | Phil Simpson | (626) 812-1166 | Lt. Hunt |
| 1430 | Pointing & Control | | Mike Roller | (408) 742-4576 | Capt. Hughes |
| 1440 | Focal Plane Assembly | | Rick Ross | (410) 765-3126 | Lt. Hunt |
| 1450 | Thermal Control Subsystem | | Dave Wilson | (626) 812-1728 | Lt. Hunt |
| 1460 | Signal Processing Assembly | | Mark Loring | (626) 812-8248 | Capt. Hughes |
| 1470 | Power & Signal Distribution System | | John Voboril | (626) 812-1716 | Capt. Hughes |
| A300 | HOSV Flight S/W DME & Data | | Dave Parsons | (408) 743-7072 | Capt. Toso |
| E100 | Planning & Preparation | | Dave Parsons | (408) 743-7072 | Capt. Toso |
| E300 | Transfer & Transportation | | Dave Parsons | (408) 743-7072 | Capt. Toso |



IBR Team Membership - 3 of 5



| WBS | Description | IPT Lead | CAM | CAM Phone # | SPO Counterpart |
|------|---|------------------|--------------|----------------|------------------------|
| | | | | | |
| 3XXX | Grd Cmd,Cntrl,Comm & Mssn Eq | Colleen McFadden | | (303) 581-4428 | Lt. Col. Vanderpoorten |
| 3110 | Business Ops | | Watkins | (303) 581-4835 | Schaub(I1)/Wallace(I2) |
| 3120 | Seg Engineering | | Kile | (303) 581-4385 | Schaub(I1)/Wallace(I2) |
| 3130 | ILS Spec Engineering | | Kile | (303) 581-4385 | King |
| 3140 | Seg I&T | | Marques | (303) 581-4424 | Schaub(I1)/Wallace(I2) |
| 3150 | CDF | | Marques | (303) 581-4424 | Schaub(I1)/Wallace(I2) |
| | | | | | |
| 3210 | MCS IAT&C | | Packard | (303) 581-4342 | Schaub(I1)/Wallace(I2) |
| 3220 | MCS Equipment | | Kramer | (303) 581-4518 | Schaub(I1)/Wallace(I2) |
| 3230 | TT&C SI | | Clary | (303) 581-4594 | Schaub(I1)/Wallace(I2) |
| 3240 | Mission Proc | | Catuara | (626) 812-1463 | Schaub(I1)/Wallace(I2) |
| 3250 | Mission Mgmt SI | | Carpenter | (303) 581-4473 | Schaub(I1)/Wallace(I2) |
| 3260 | SVS INFRA SI | | Gibson | (303) 581-4302 | Schaub(I1)/Wallace(I2) |
| | | | | | |
| 3300 | MCS-B | | Packard | (303) 581-4342 | Schaub(I1)/Wallace(I2) |
| | | | | | |
| 3400 | Surv Backup | | Bloom | (303) 581-4388 | Schaub(I1)/Wallace(I2) |
| | | | | | |
| 3510 | RGS IAT&C | | Fred Burgess | (303) 581-4240 | Schaub(I1)/Wallace(I2) |
| 3520 | RGS Equipment | | Fred Burgess | (303) 581-4240 | Schaub(I1)/Wallace(I2) |
| 3530 | RGS Antenna | | Fred Burgess | (303) 581-4240 | Schaub(I1)/Wallace(I2) |
| | | | | | |
| 3600 | RT | | Hinds | (303) 581-4448 | McKay |



IBR Team Membership - 4 of 5



| WBS | Description | IPT Lead | CAM | CAM Phone # | SPO Counterpart |
|------|-------------------------|--------------|----------------|-------------|-----------------|
| 6100 | Tech Pubs | Kile | (303) 581-4385 | King | |
| 8000 | CSI | Marques | (303) 581-4424 | King | |
| 9100 | MCS/MCSB Spares | Kile | (303) 581-4385 | King | |
| 9200 | RGS Spares | Fred Burgess | (303) 581-4240 | King | |
| A100 | SW DP Depot | Kile | (303) 581-4385 | King | |
| B100 | Training Equipment | Barrios | (303) 581-4566 | King | |
| B200 | Training Services | Barrios | (303) 581-4566 | King | |
| B300 | Training Facilities | Barrios | (303) 581-4566 | King | |
| D110 | Site Activation | Bloom | (303) 581-4388 | King | |
| D120 | MCS Facility/Activation | Bloom | (303) 581-4388 | King | |
| D130 | RGS Facility/Activation | Fred Burgess | (303) 581-4240 | King | |
| D200 | P-Ops Support LMFSC | Kile | (303) 581-4385 | King | |



IBR Team Membership - 5 of 5



| WBS | Description | IPT Lead | CAM | CAM Phone # | SPO Counterpart |
|------|------------------------------------|--------------|-----------------|----------------|---------------------------|
| 41XX | System Engineering | Mark Crowley | | (408) 756-0969 | Maj. Watson |
| 4110 | Management & Business Operations | | Julie Foster | (408) 743-7387 | Maj. Watson |
| 4120 | Software Process Management | | Tom Kelley | (303) 581-4226 | Maj. Wallace |
| 4130 | Reqmts, Analysis, Alloc & Verif | | Chris King | (408) 742-2002 | Maj. Chang/Mr. Markle |
| 4140 | Sys & Mssn Afford/Util Analysis | | Theresa Ito | (408) 742-6246 | Maj. Scruggs |
| 4150 | Systems Integration | | Gary Montgomery | (408) 743-1815 | Lt. Col. Stephen |
| | Systems I/F & Transition | | Les Nelson | (719) 550-2246 | Maj. Falkenstein |
| 4160 | Specialty Engineering | | Jon Burgess | (408) 756-4678 | Maj. Bob King |
| 4170 | Integrated Logistics Support | | Jon Burgess | (408) 756-4678 | Maj. Bob King |
| 4180 | Launch System Integration | | Gary Montgomery | (408) 743-1815 | Capt. Toso/Capt. Cruciani |
| | | | | | |
| 4300 | Tot Sys Perf Responsibility (TSPR) | | Dave Chisessi | (408) 743-2183 | Maj. Watson |
| | | | | | |
| 5100 | Sys Dev Test & Evaluation (DT&E) | | Mike Byrne | (408) 742-3855 | Mr. Masternak |
| | | | | | |
| C100 | Launch Operations | | Mike Byrne | (408) 742-3855 | Capt. Toso/Capt. Cruciani |
| C200 | Flight Operations Support | | Mike Byrne | (408) 742-3855 | Capt. Toso/Capt. Cruciani |
| | | | | | |
| 42XX | Program Management | Kent Haeger | | (408) 742-0584 | Lt Col. Stephen |
| 42XX | Program Management | | Reneé Cintas | (408) 756-2158 | Lt. Grant |
| 4230 | EDAMS | | Rick Smith | (408) 742-5459 | Mr. Tatum |
| | | | | | |
| 6200 | Engrg, Mgmt & Sppt Data | | Reneé Cintas | (408) 756-2158 | Lt. Grant |